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B5*

47. (Amended) A data analysis system, comprising:

2        a memory for storing discrete cosine transform equations having been formed by

3        arranging the discrete cosine transform equations into at least one collection having at

4        least two discrete cosine transform constants, scaling the discrete cosine transform

5        equations in the at least one collection by dividing each of the discrete cosine transform

6        constants in the collection by one of the discrete cosine transform constants from the at

7        least one collection and representing each of the scaled discrete cosine transform

8        constants with estimated scaled discrete cosine transform constants approximated by

9        sums of powers-of-2; and

10        a transformer for applying the transform equations to perform a discrete cosine

11        transform to decorrelate data into discrete cosine transform coefficients.